

Fig. 1

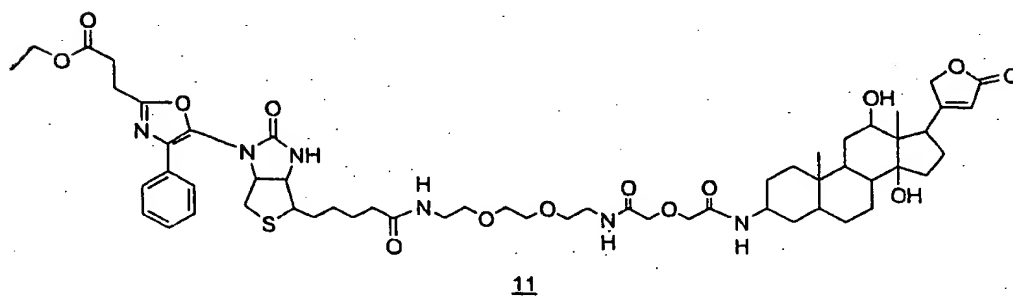
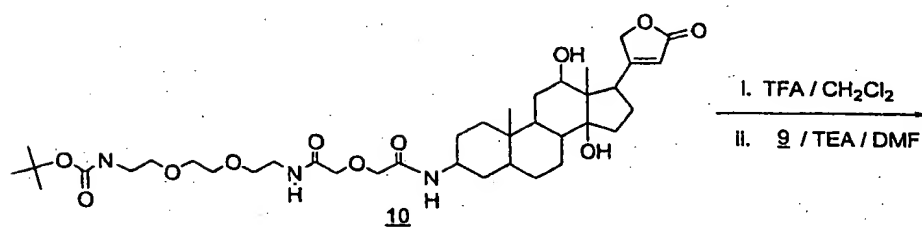
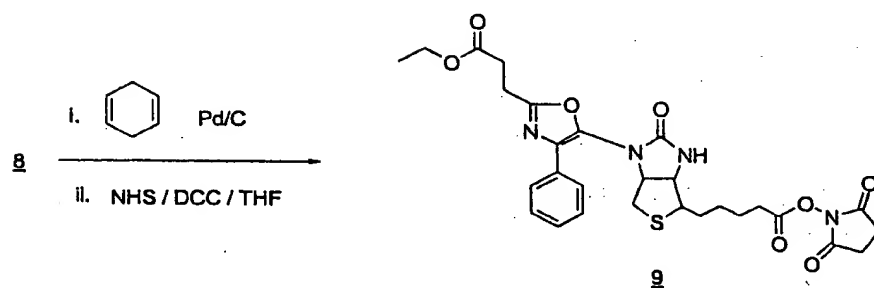
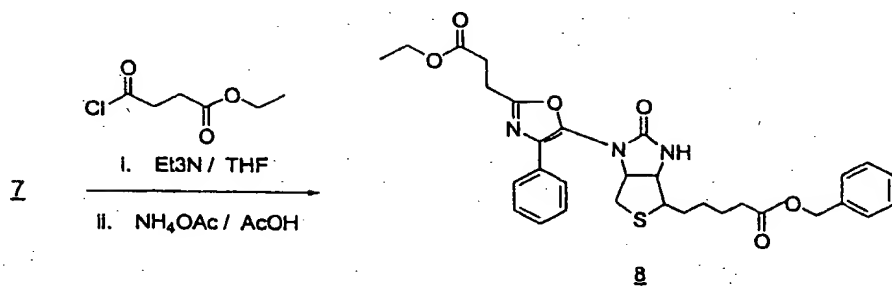
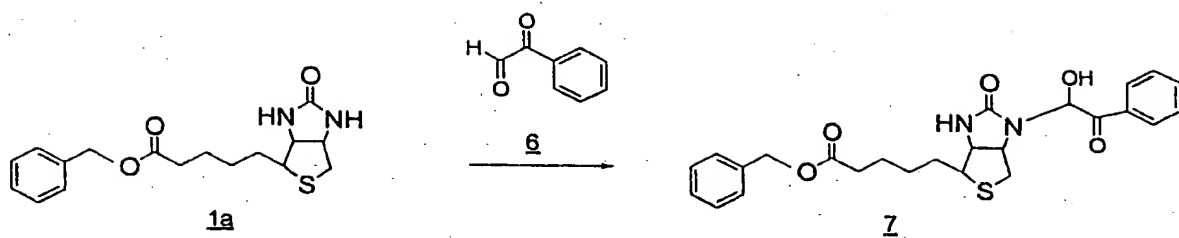
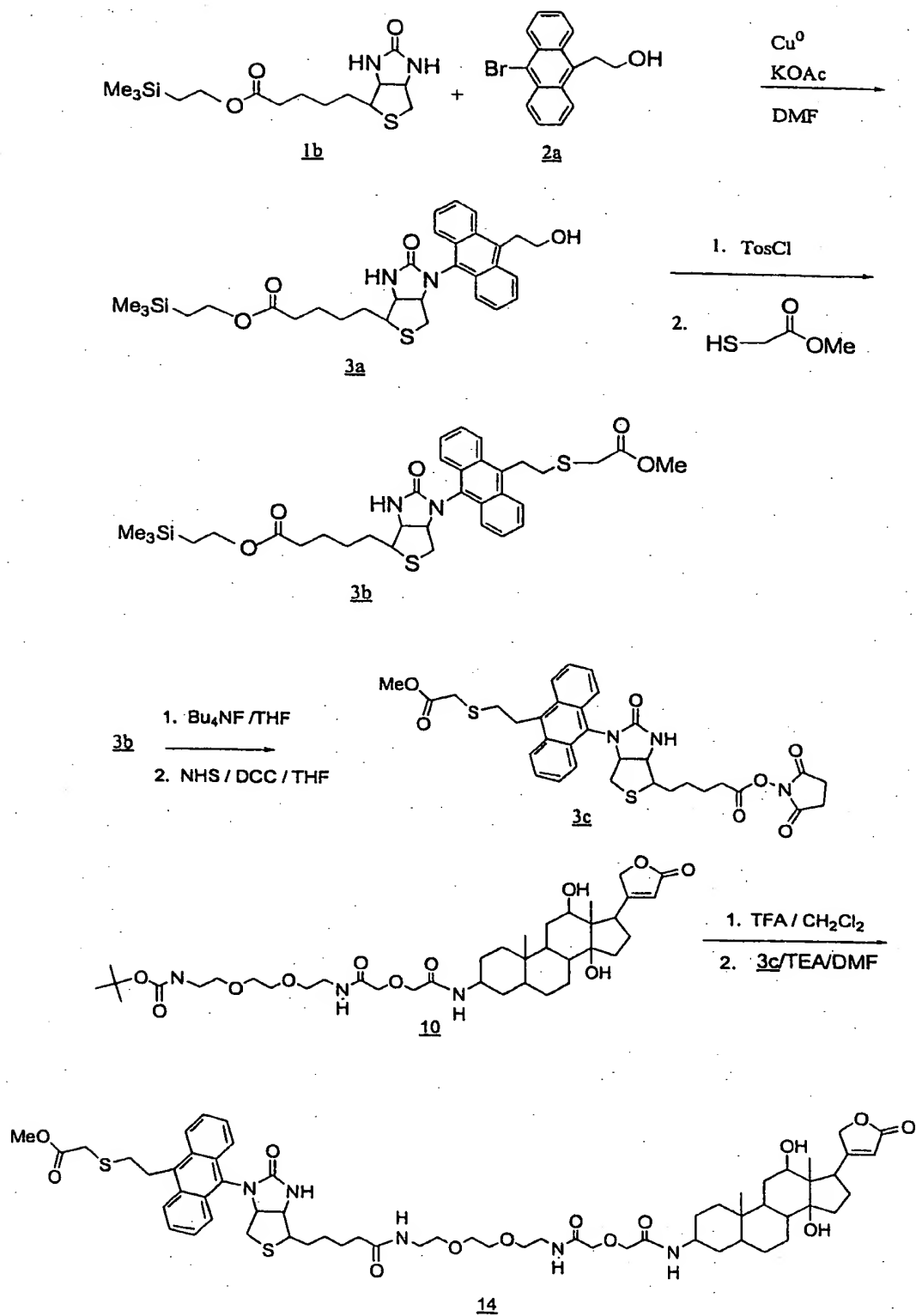


Fig. 2



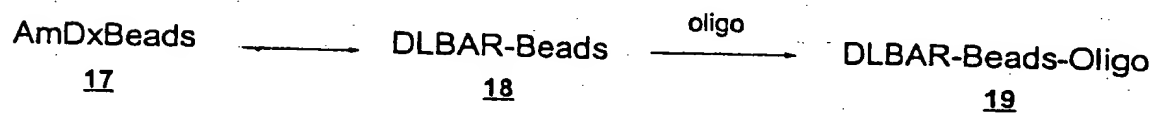


Fig. 4

Bead Preparation for Nucleic Acid Detection Amplification

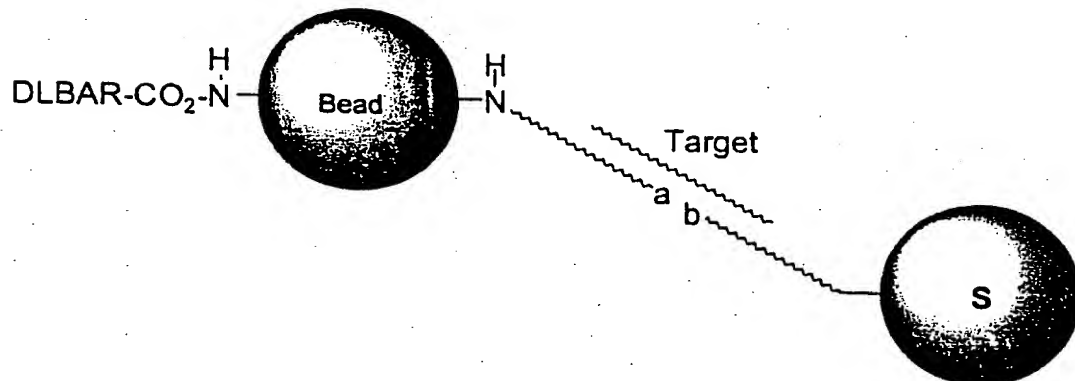
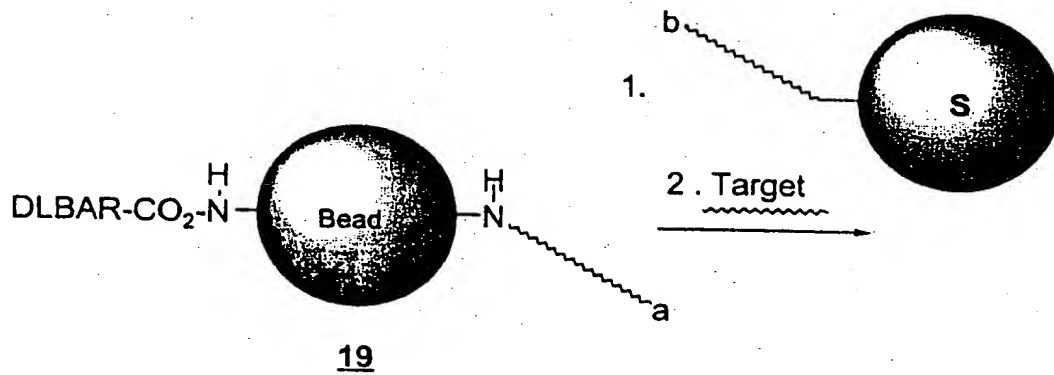
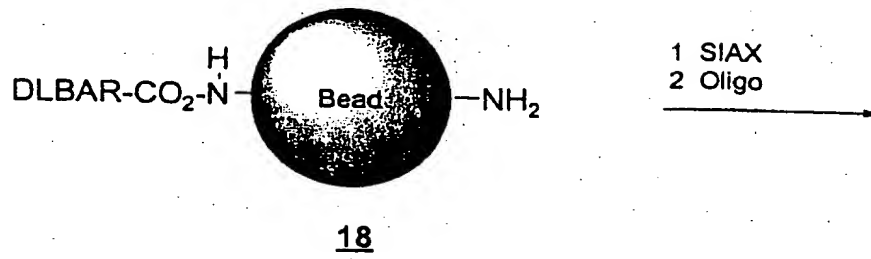
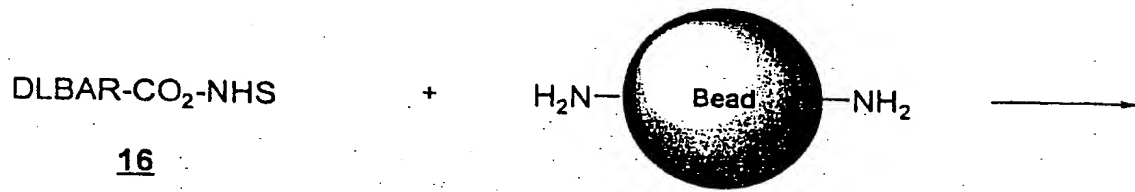


Fig. 5

LOCI Amplification

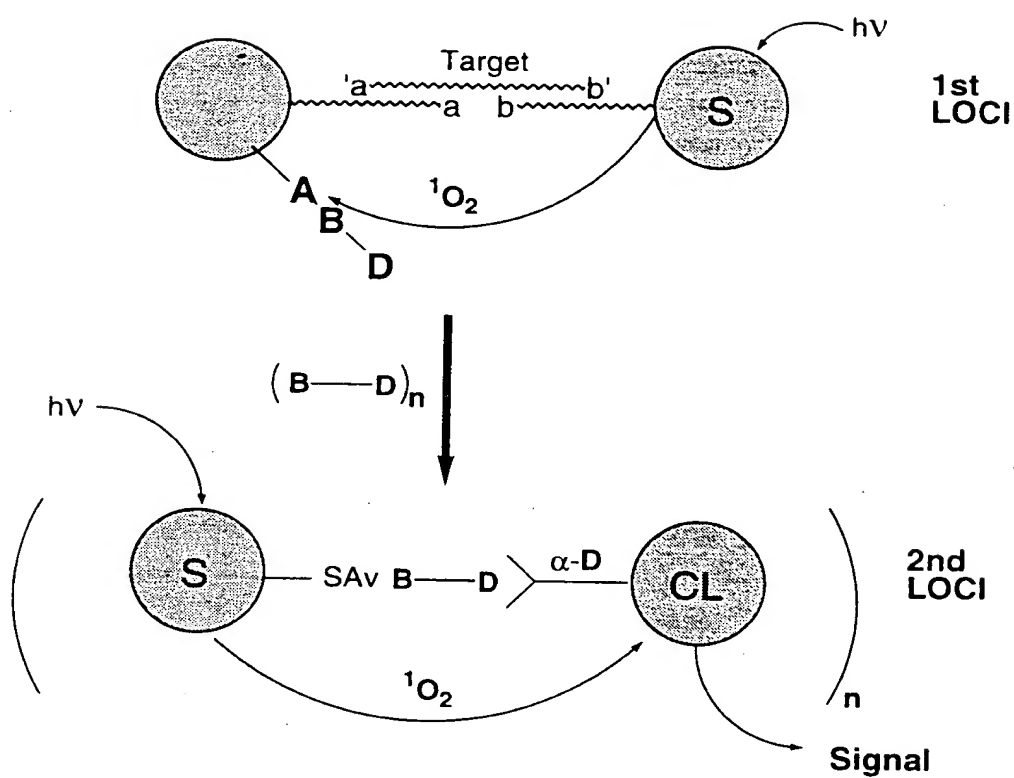
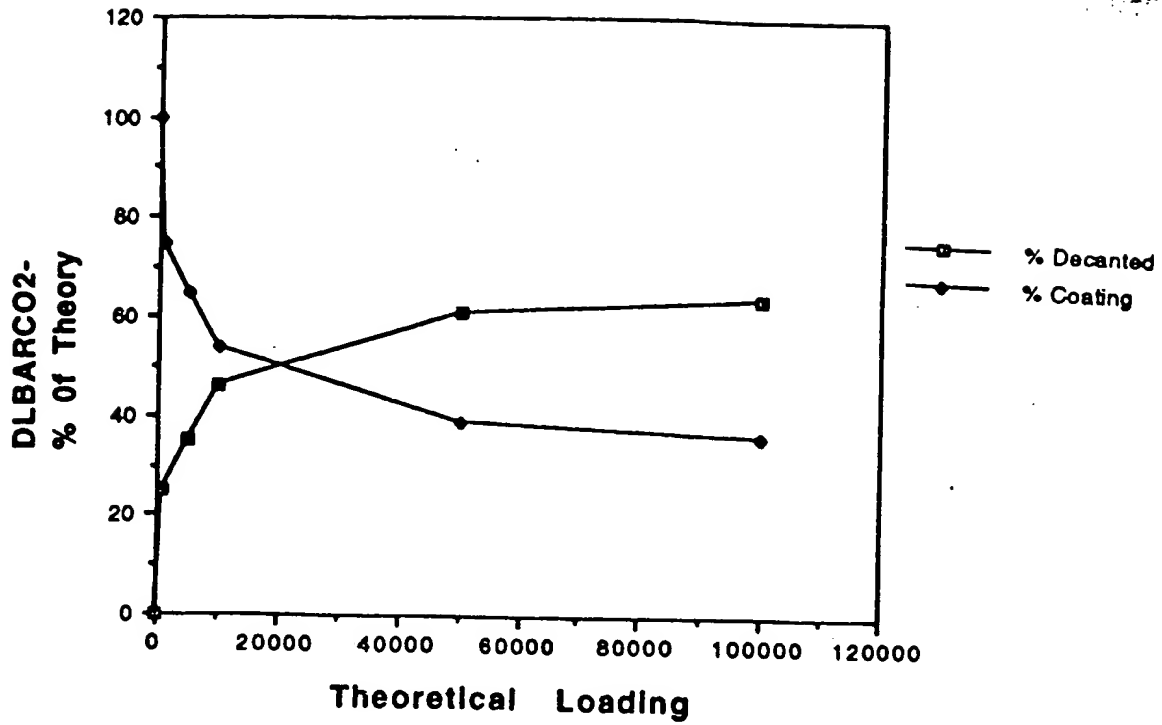


Fig. 6



UV Analysis of Coating
DLBARCO2- / Bead

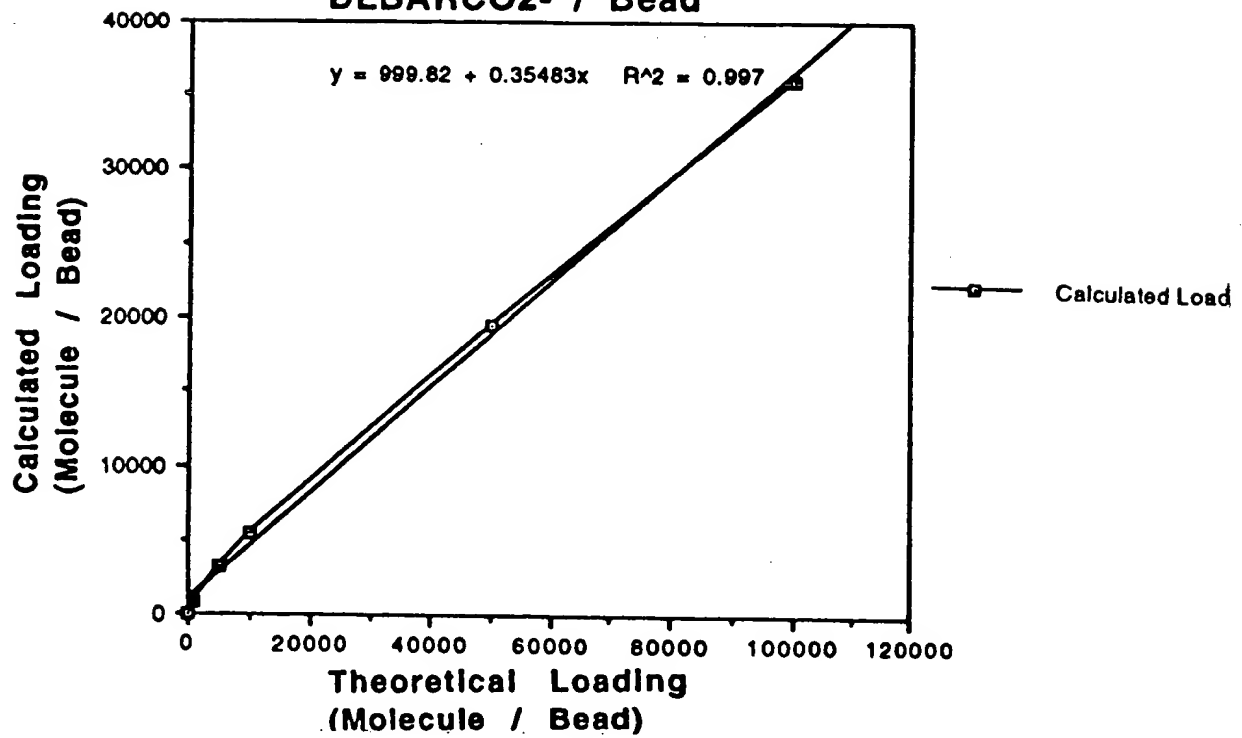


Fig. 7

Deprotection of Dig-Link-Biotin-Anth-R-CO₂Me
LOCI detection with Cl-antidig and Sens-Sav

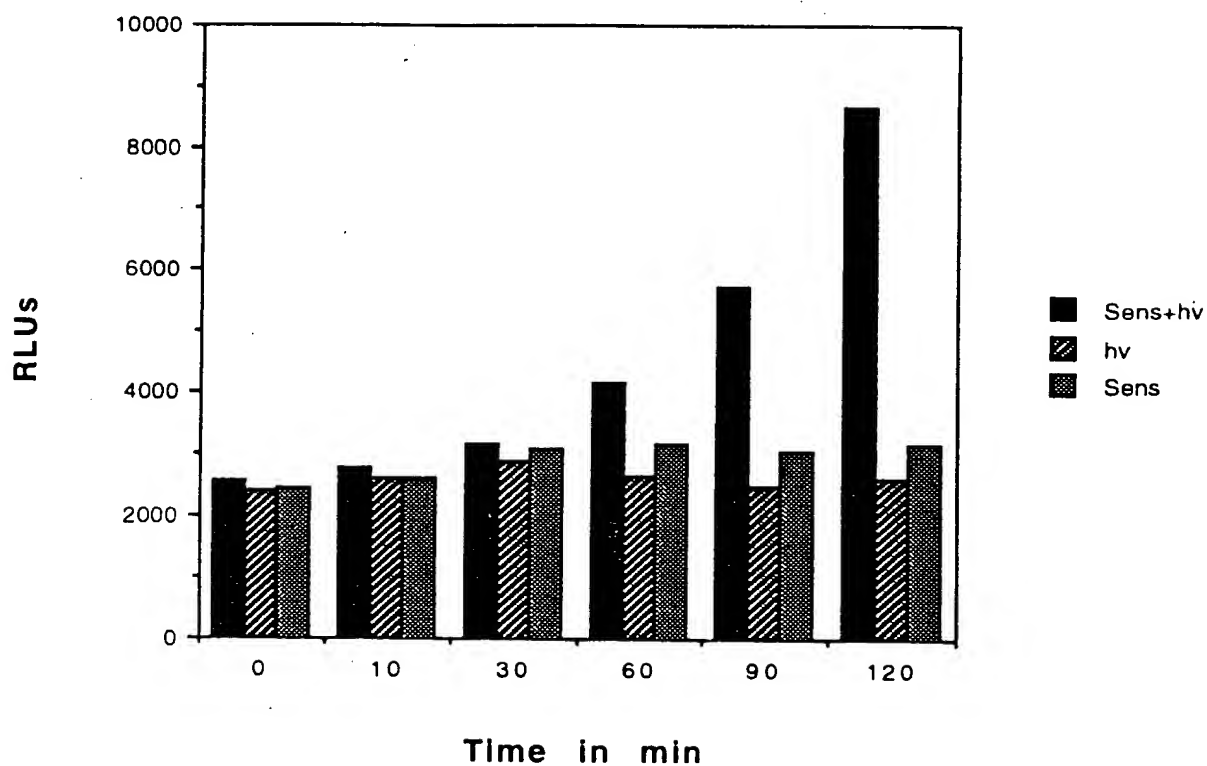
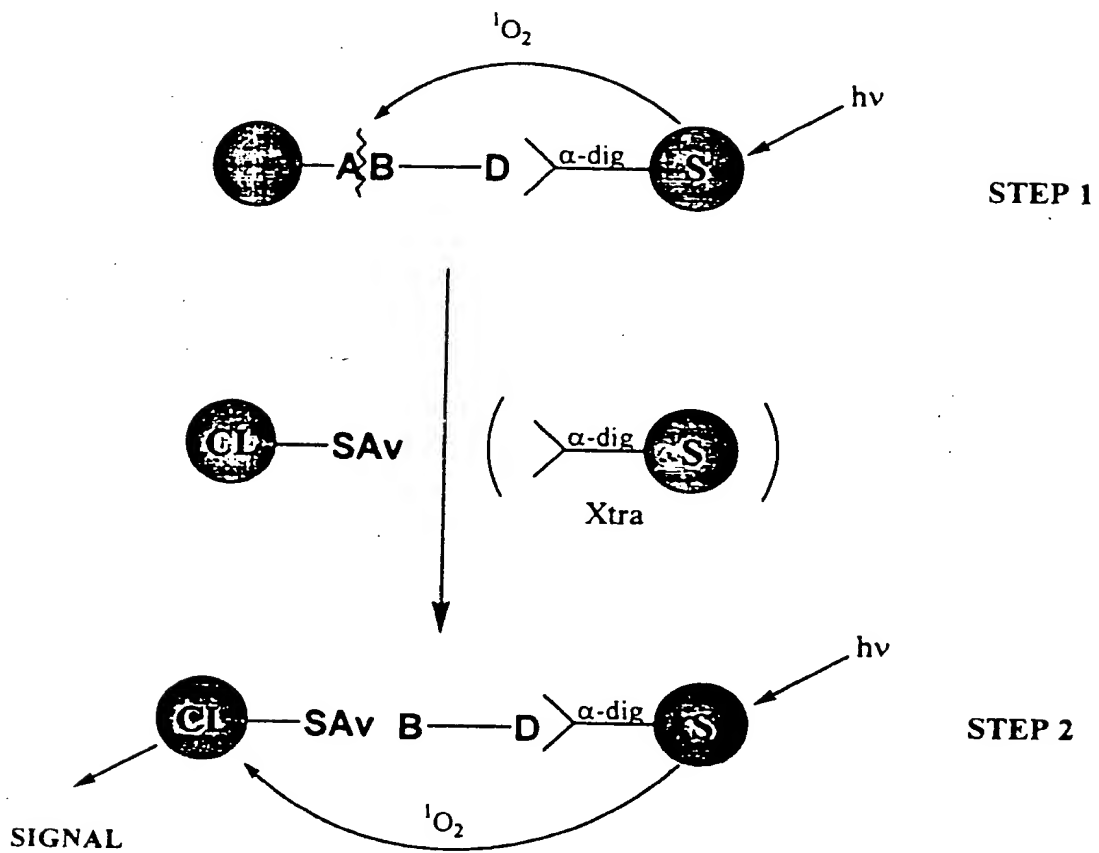


Fig. 8

TEST:

Dig-Linked-Biotin Release From DLBAR-Beads



Procedure:

Combine 100 μ L (100 μ g) of each bead, incubate for 1 hr at 37 $^{\circ}$. Dilute with 0.8mL IHBB. Remove 100 μ L for T_0 and each T_n illumination (D-J lamp). Add 10 μ L (10 μ g) of each bead (for step 2) to each T_n and incubate for 1 hr at 37 $^{\circ}$. Add 1ml LOCI buffer to each, and equilibrate for 1h at 37 $^{\circ}$. Read 1s/1s x 10.

Fig. 9

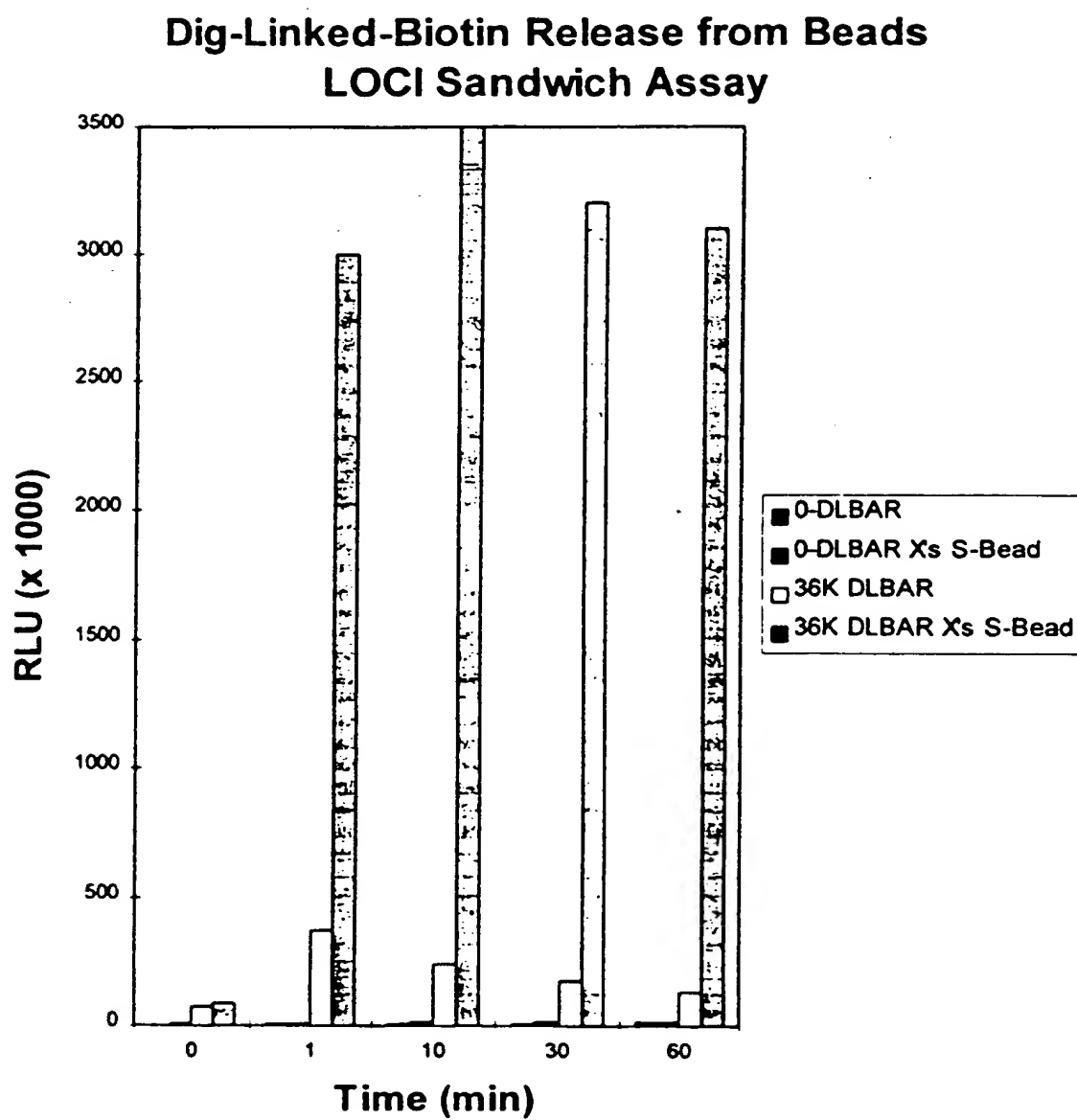


Fig. 10

Release of Dig-Linked-Biotin from Beads Using Soluble Sensitizer, Detection by LOCI

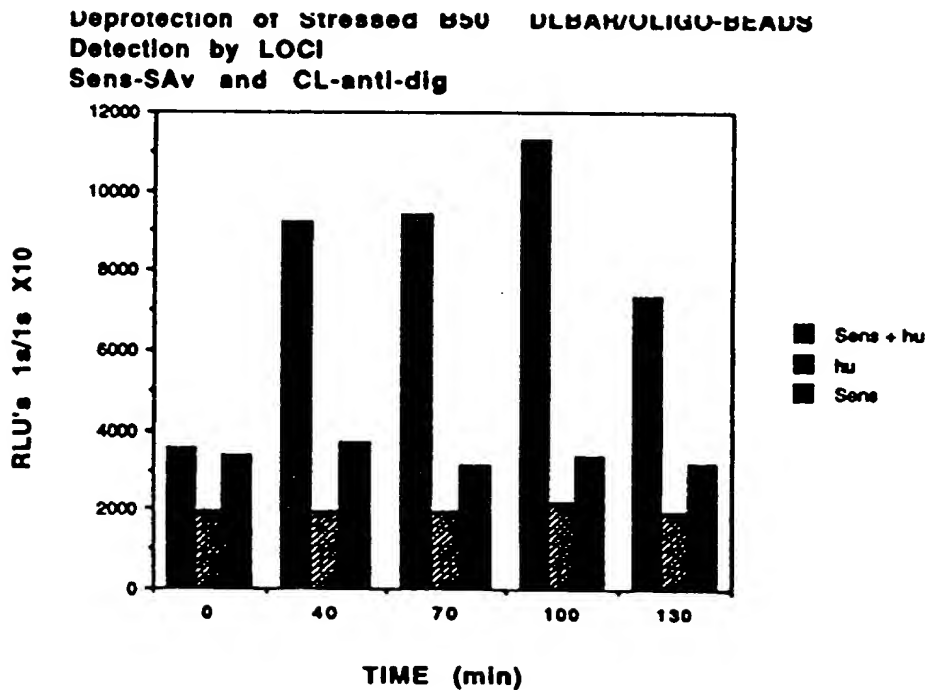
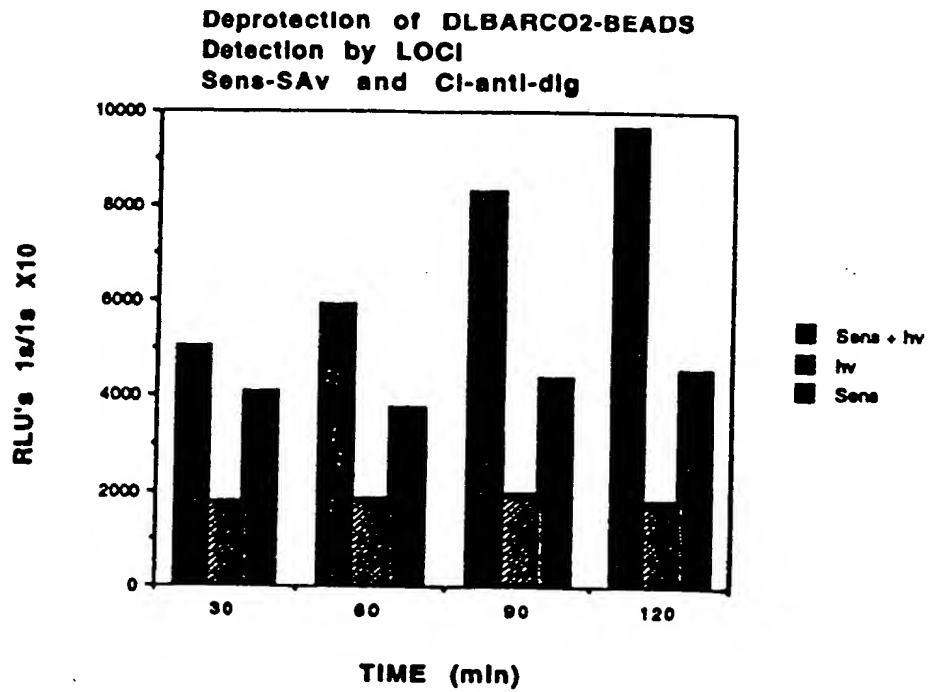
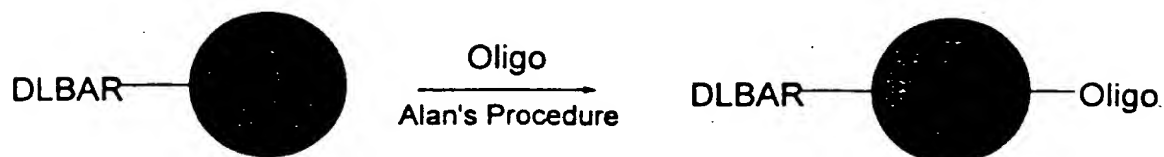


Fig. 11

Preparation of DLBAR/Oligo Beads



20K DLBAR/Bead
20K Oligo/Bead

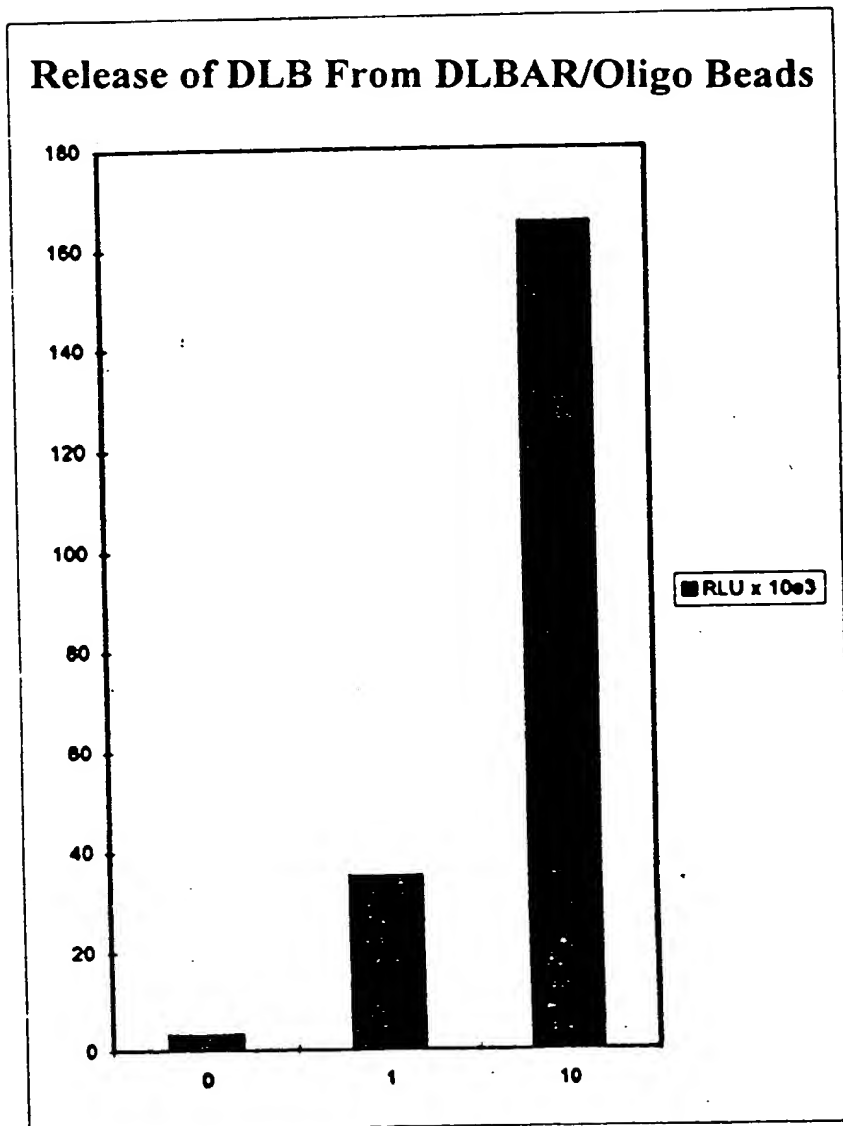
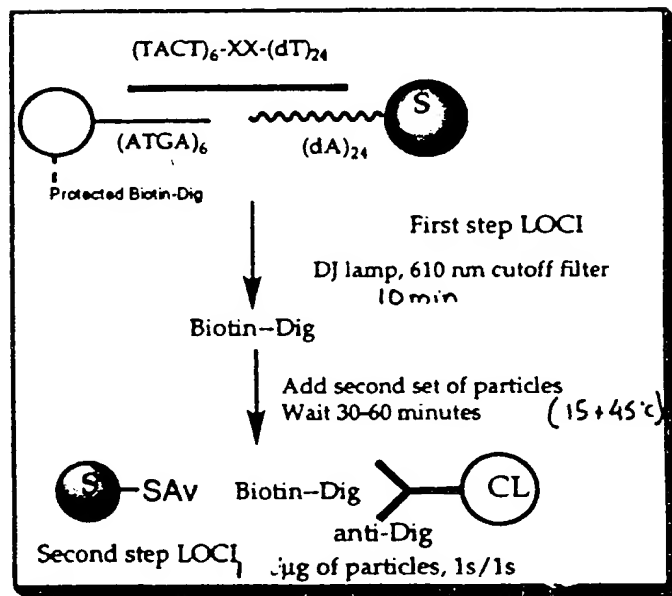
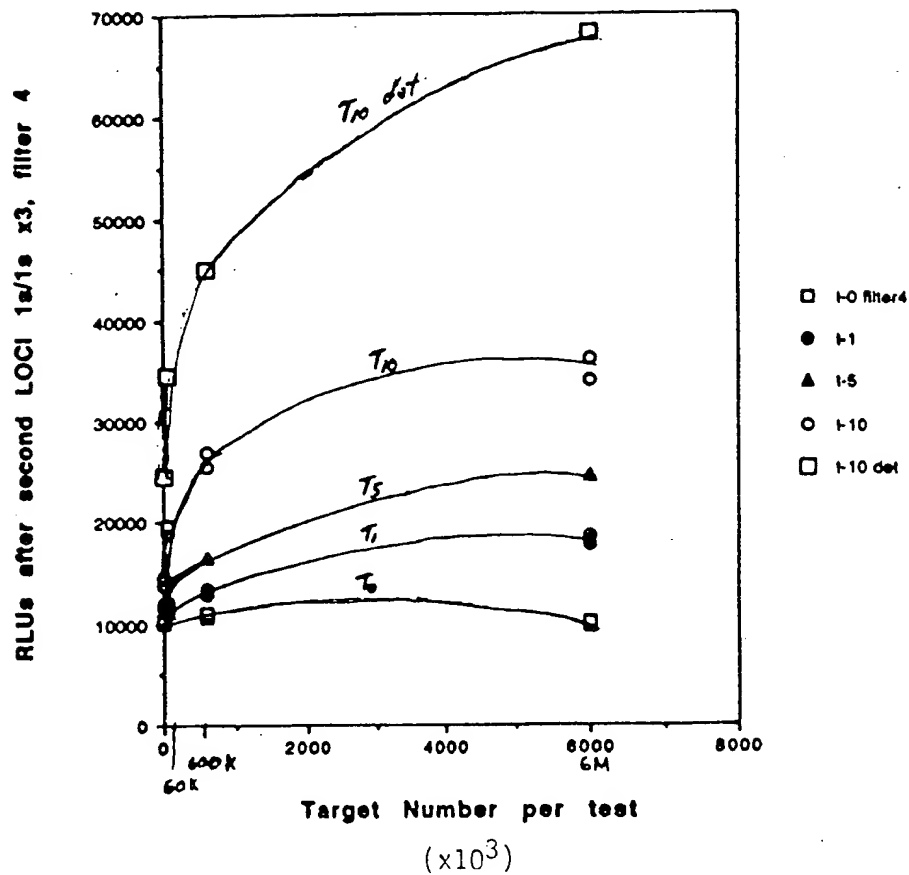


Fig. 12

Amplified LOCI, 5ug AGTA(DLBAR)/1ug Sens-dA,



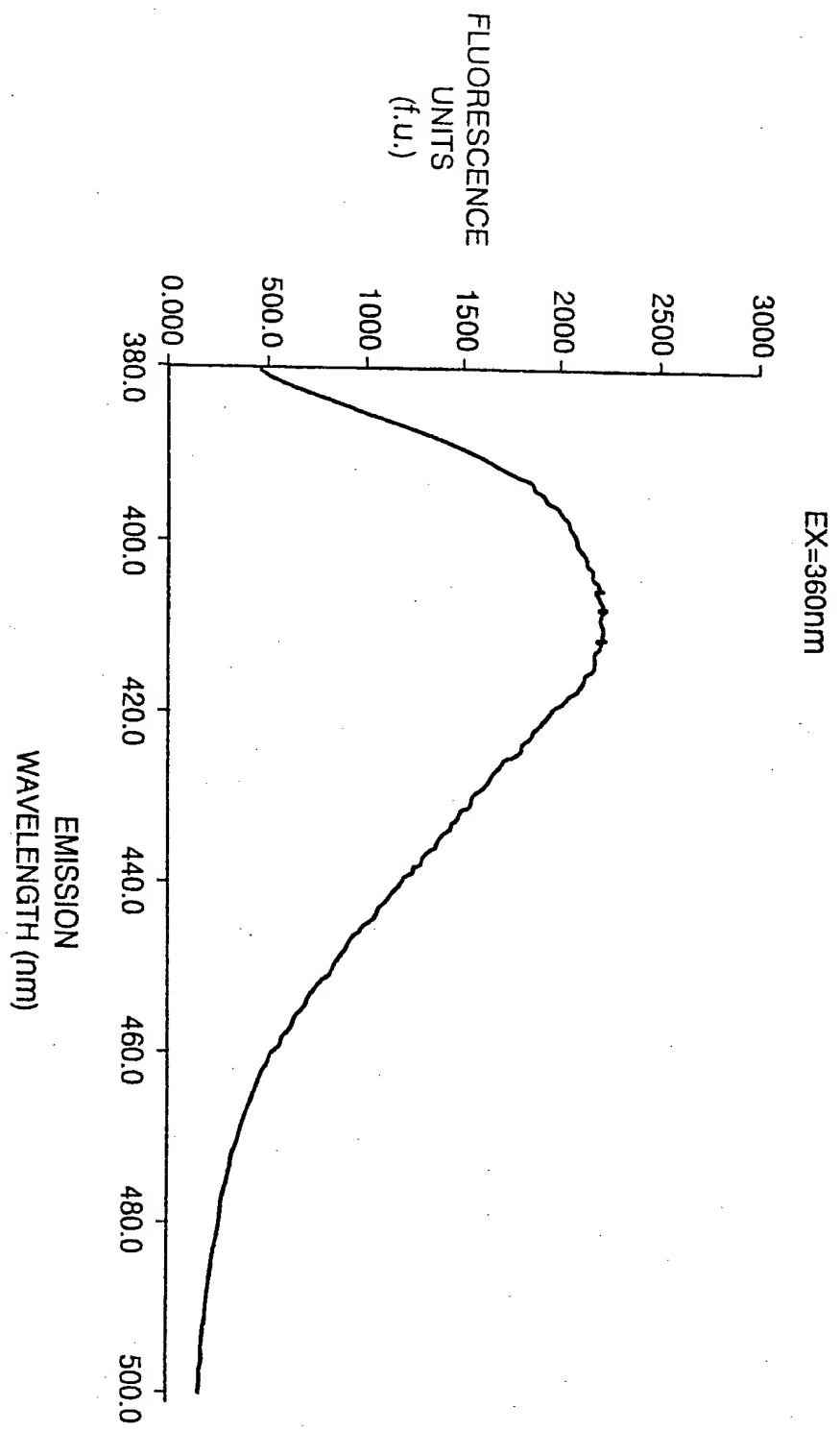


Fig. 13a

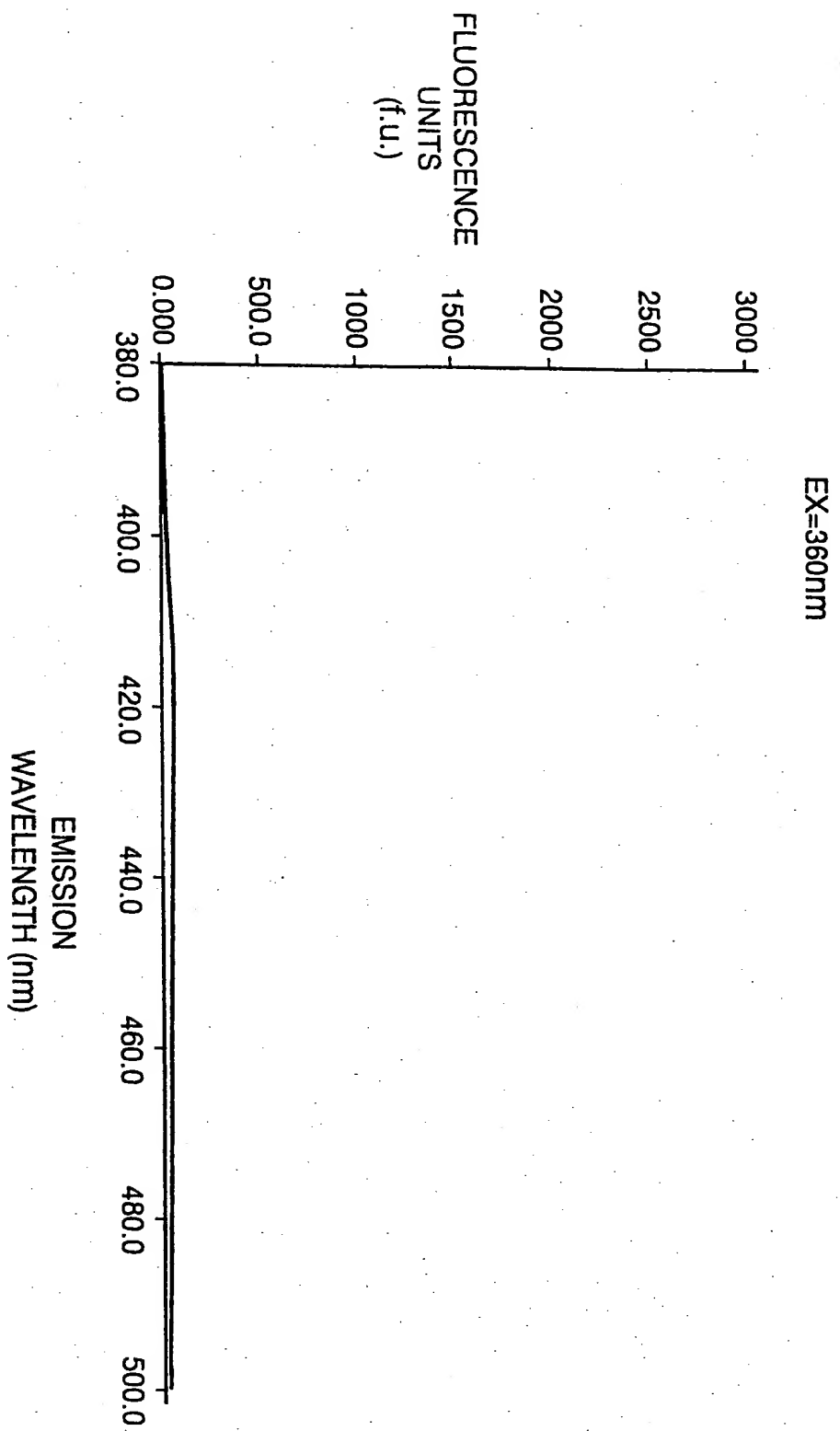


Fig. 13b

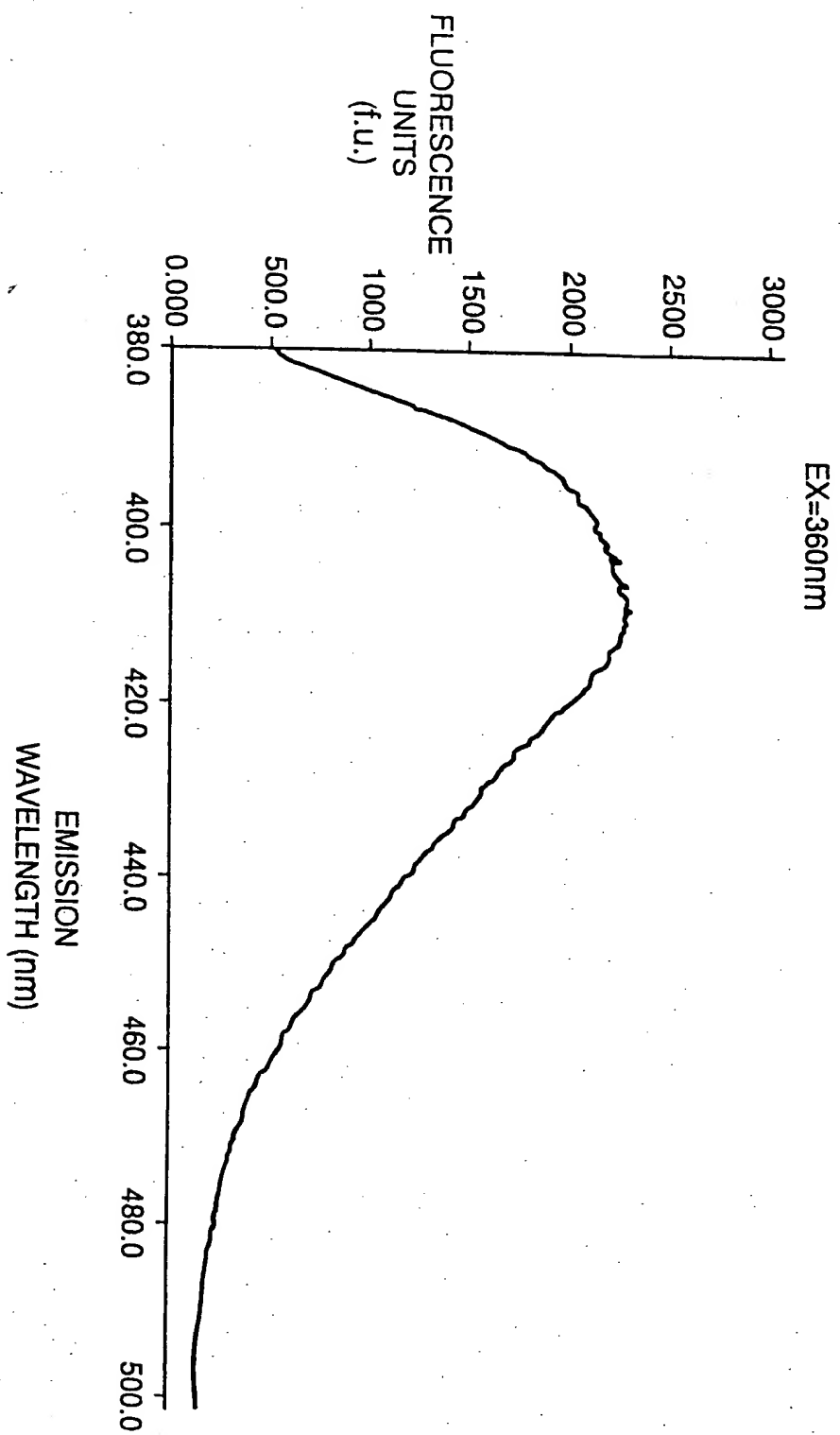


Fig. 13c

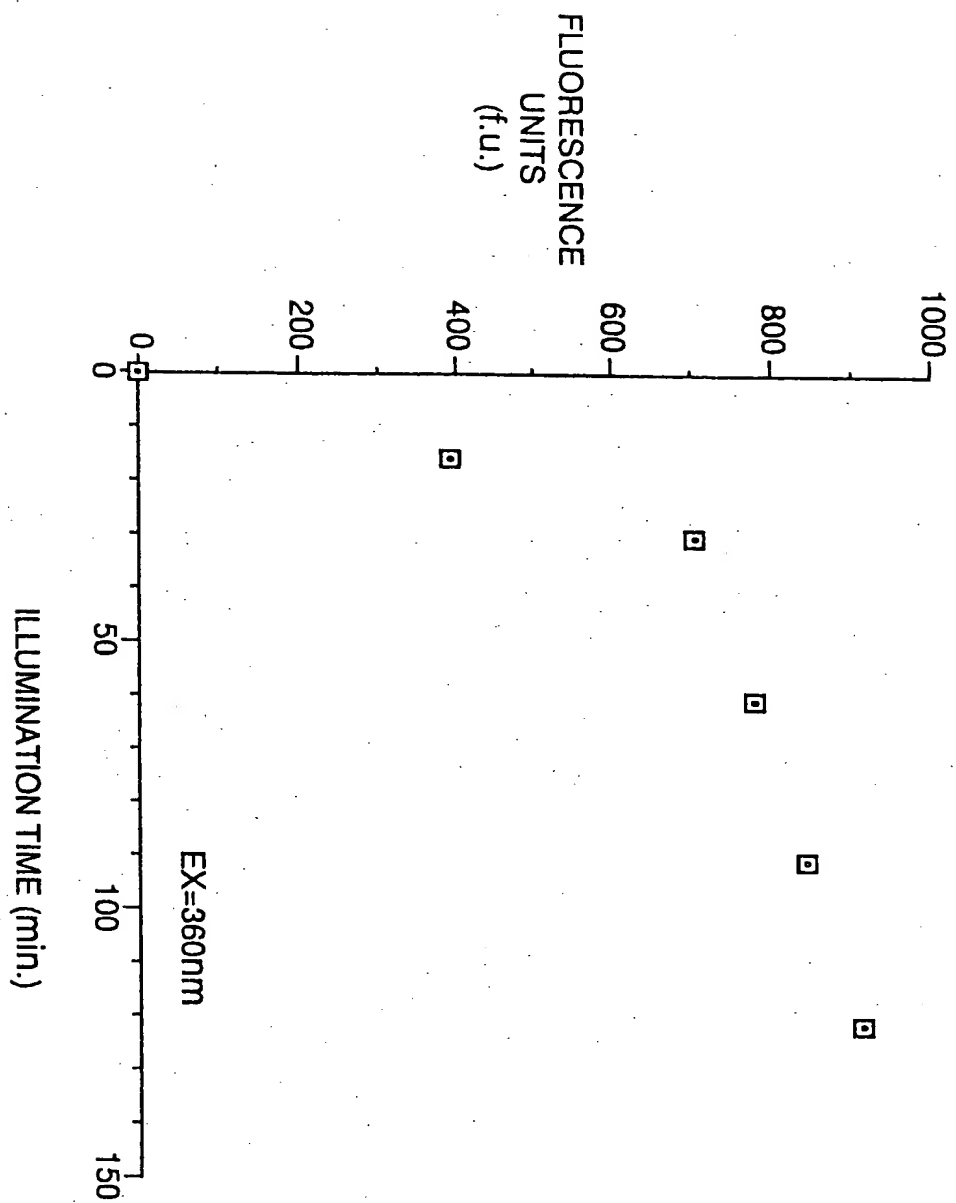


Fig. 14

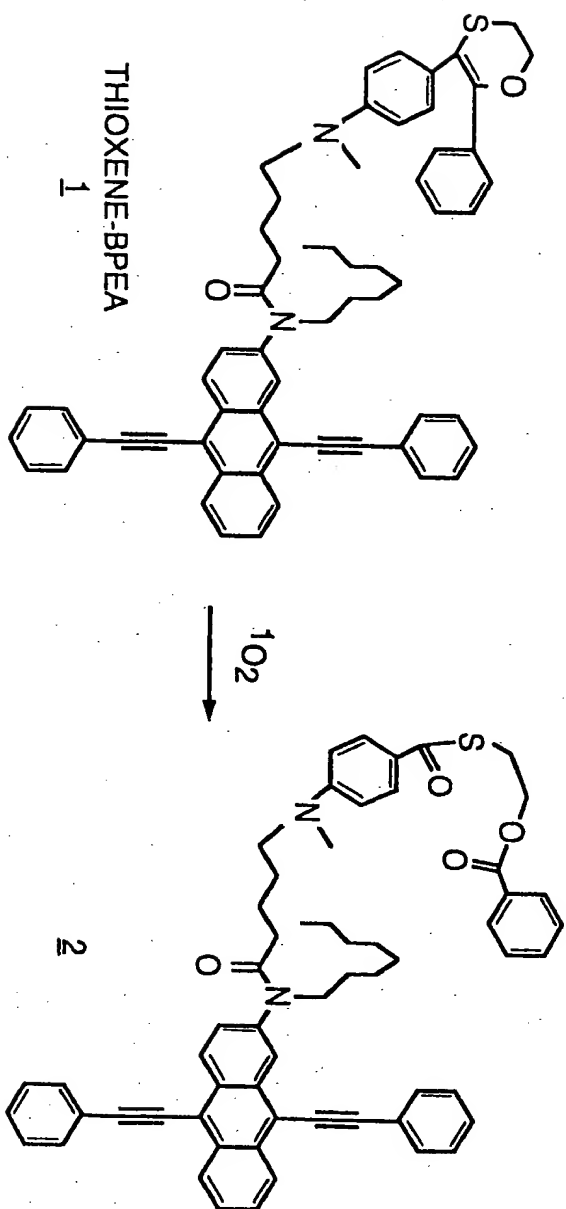


Fig. 15

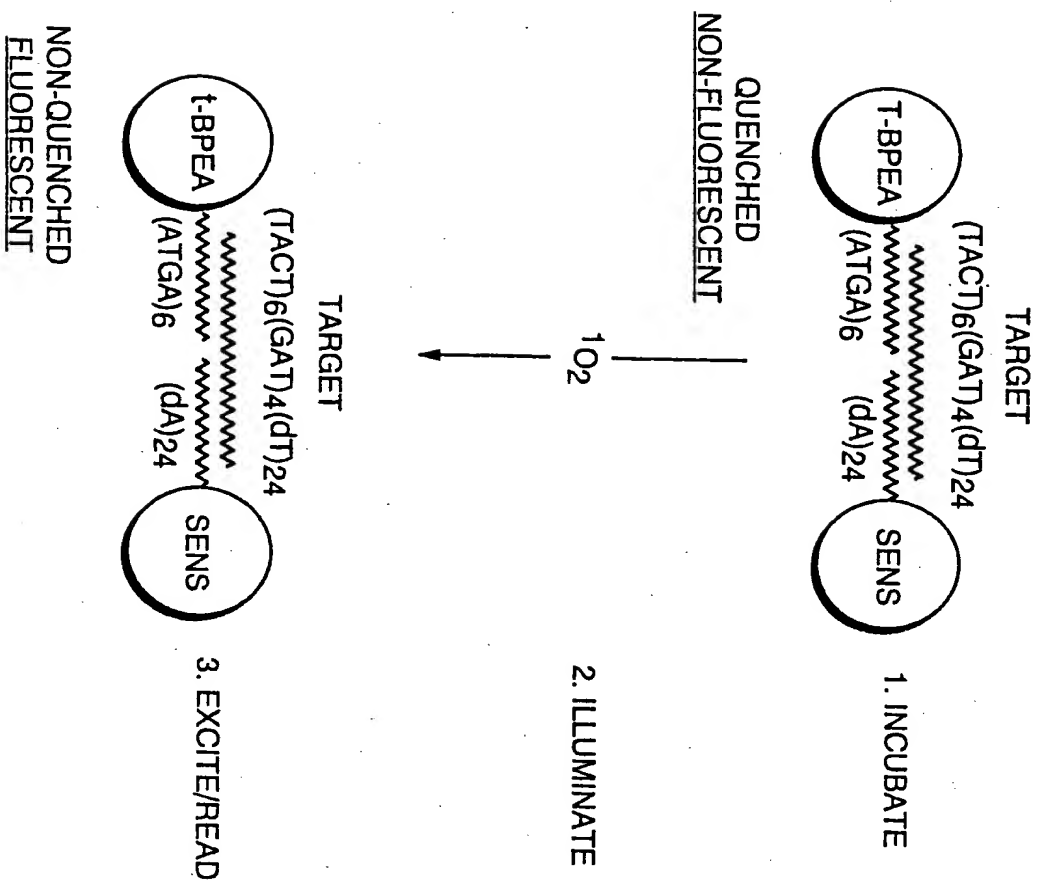


Fig. 16

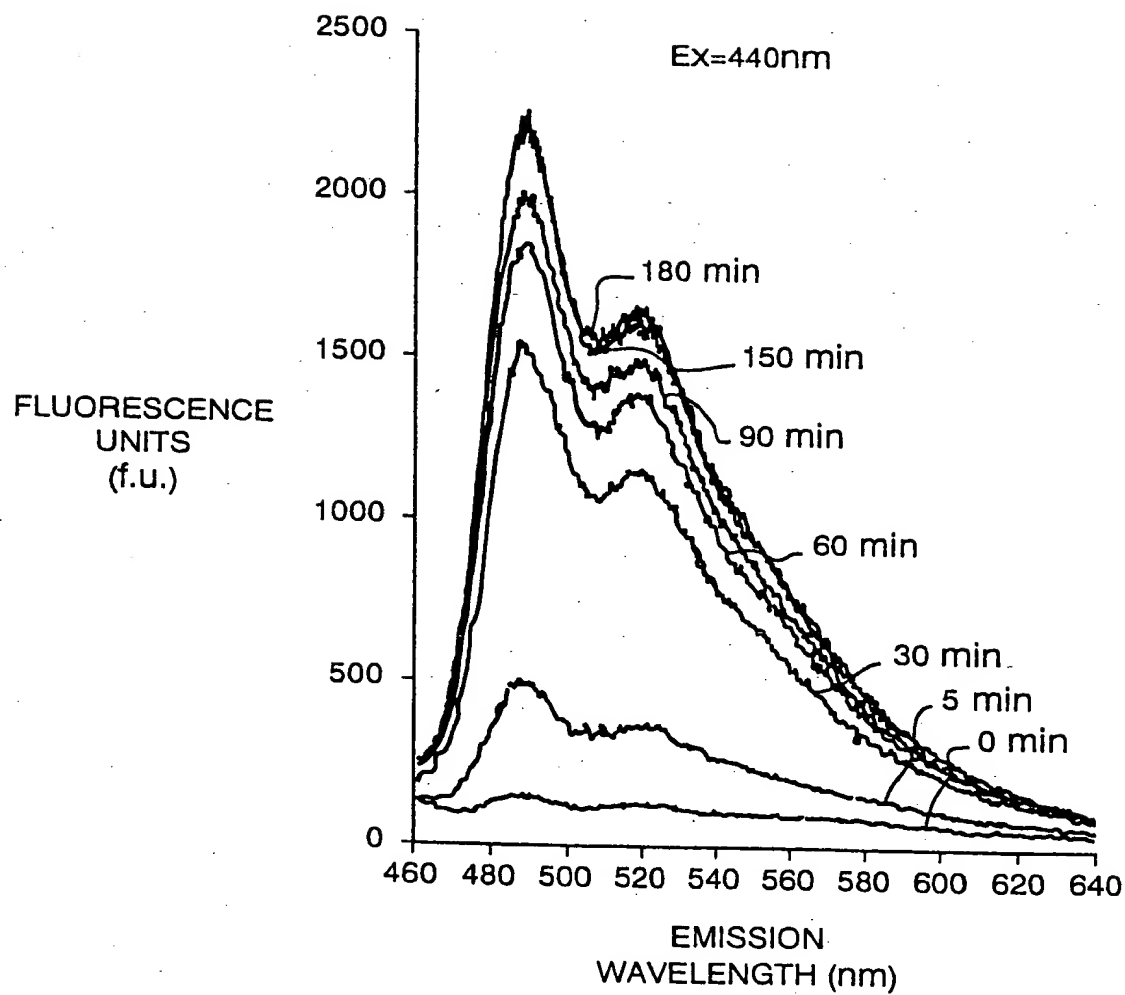


Fig. 17

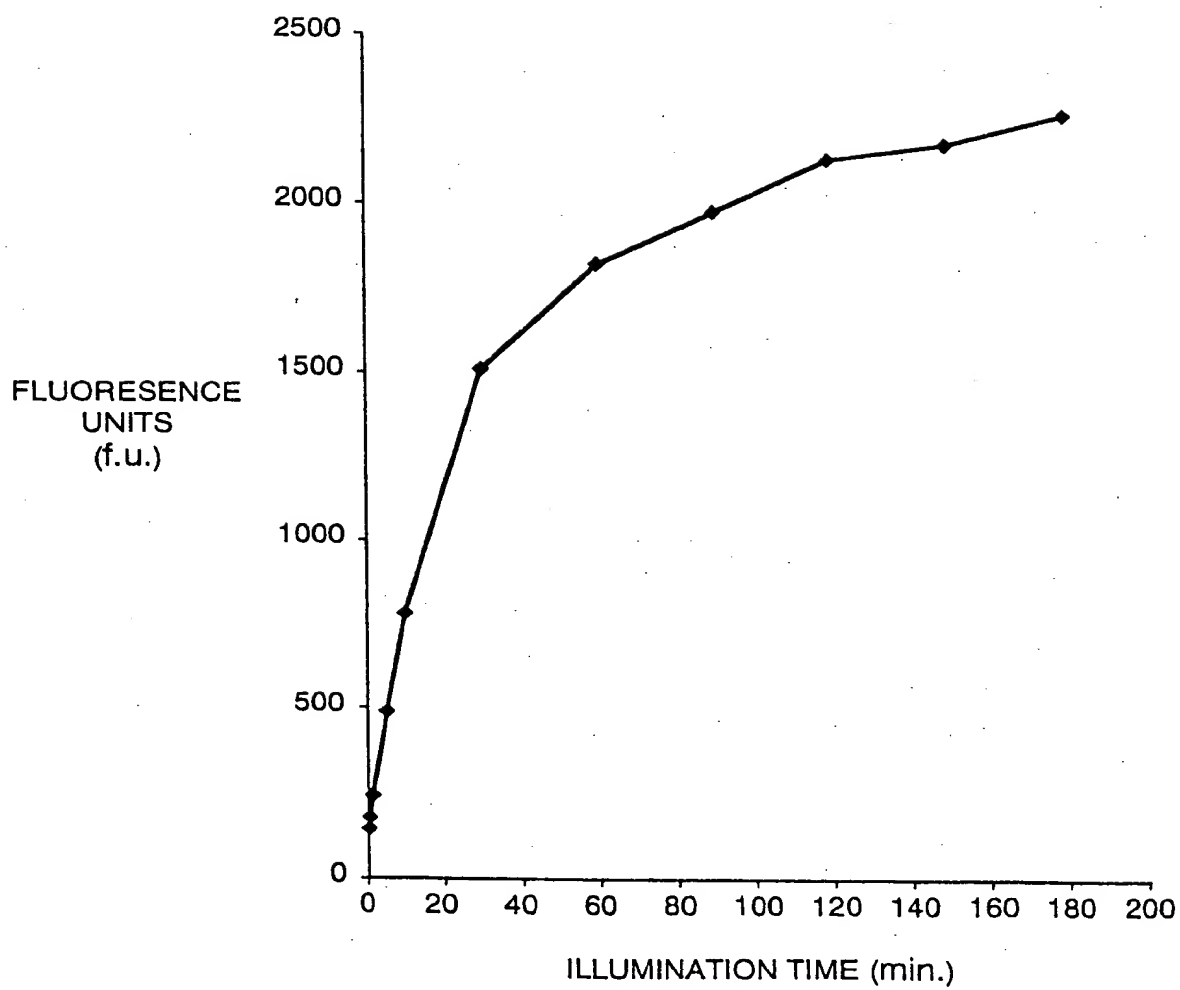


Fig. 18